

# PATENT ABSTRACTS OF JAPAN

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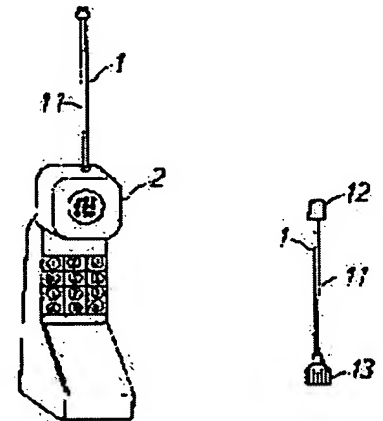
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## (54) WHIP ANTENNA

### (57)Abstract:

**PURPOSE:** To solve troublesome correction against damage, deformation or heating and to prevent lowering of antenna gain by employing a wire rod made of a material having superelasticity such as titanium or nickel alloy for a core wire being an antenna element and applying metallic plating to the surface of the core wire rod having superelasticity being the antenna element.

**CONSTITUTION:** A protection cap 12 to evade tip bent is fitted normally to the tip of an antenna element 11 and a connection plug 13 is fitted to the root. The difference between a conventional antenna and the antenna by this invention resides in that a superelastic alloy wire rod material made of Ti or Ni is employed for the core wire being an antenna element 11 and metallic plating is applied to the surface in this invention. The shape of the antenna element using a superelastic alloy relating to this invention is easily restored to the original linear shape when a stress is removed whatever deforming stress is imposed on the antenna element, and the break of antenna element is prevented. Since the electric resistance on the surface of the material is reduced by the plating, even when the electric resistance of the antenna element itself is high, the defect is compensated by applying plating to the surface and a useful antenna is obtained.



## LEGAL STATUS

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